



COUNTY OF LOS ANGELES  
Internal Services Department

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Director

*To enrich lives through effective and caring service.*

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To: Each Supervisor

From: Tom Tindall  
Director

Subject: **ANNUAL CLEAN FUELS REPORT**

The Board of Supervisor's "Clean Fuels" policy was adopted on January 10, 1995. The policy requires that by March 1 of each year, departments report on the composition of their fleet and their progress toward acquiring clean fuel vehicles.

Attachment I is ISD's report for calendar year 2009, which includes data on all of the County departments and vehicles for which ISD provides automotive services. County departments that maintain their own vehicles (Sheriff, Public Works, and Fire) will report separately. Please note that this report includes the 251 Office of Public Safety (OPS) vehicles which were maintained by ISD during 2009. For 2010, OPS vehicles will be reported by Sheriff's Department due to the consolidation of the Office of Public Safety with the Sheriff, as approved by your Board on December 15, 2009.

The ISD-maintained motor vehicle fleet includes 4,083 vehicles, of which 550 (13%) are alternative fuel vehicles (AFVs). Passenger vehicles in the ISD-maintained fleet total 1,257, of which 389 (31%) are AFVs.

Attachment I indicates that County departments purchase a variety of AFVs, including hybrid, electric, natural gas, bi-fuel, flex-fuel and propane. Also reflected is information captured to date on certified low emission vehicles (LEV's) and ultra-low emission vehicles (ULEV's) as defined by the California Air Resources Board.

### **Hybrid Vehicles**

ISD continues to help County departments learn about and acquire hybrid and AFVs in support of the County's Clean Fuels policy. The following actions were taken during this reporting period:

- The Clean Fuels policy was revised February 3, 2009, to include Compressed Natural Gas (CNG) and other alternative fuel powered non-emergency vehicles and trucks, and medium to heavy-duty vehicles.
- County departments purchased 44 additional hybrid sedans in calendar 2009.



- Vehicle Purchasing Services Program has continued to expand. This program, approved by your Board in February 2008, provides employee incentives to lessen the environmental impact of work commuting, and allows County employees to purchase or lease alternative fuel vehicles. We now have eleven (11) participating automotive dealerships. County employees used this program to purchase 134 hybrid vehicles during 2009, bringing the total number of hybrid vehicles purchased by County employees under this program to 260.

### **Plug-In Hybrid Electric Vehicles**

In late 2007, ISD retrofitted two Toyota Prius hybrid vehicles to Plug-In Hybrid Electric Vehicle (PHEV) technology. A grant from the Quality and Productivity Commission funded the conversion.

This technology involves adding greater battery capacity and a battery charger that can be plugged into a conventional electrical outlet from the hybrid vehicle. This allows the converted vehicle to increase the range it can travel on an electric charge, decrease its use of gasoline, and greatly improve the vehicle's overall miles per gallon (MPG) performance. These vehicles may be capable of traveling distances of up to 60 miles on battery charge alone, during which no gasoline is used.

During 2009, testing for the two retrofitted PHEV vehicles was extended to include frequent trips in various driving conditions to conduct County duties. Testing results included excellent performance consistency, a marked MPG increase, and an easy to use battery charging system with a standard 110 volt electric plug. Over 2009, the average mileage for the PHEVs was 55 mpg, an increase of approximately 22% over standard hybrid sedan fuel efficiency. These results support continued use of PHEV technology. However, a cost-benefit analysis is still needed once PHEV manufacturers place these vehicles in production for the general public and establish vehicle pricing.

Concurrently, ISD is seeking grant funding available through the California Energy Commission to provide infrastructure at County facilities to support the use of PHEV and all-electric vehicles. Several automotive manufacturers have plans to release mass-produced PHEV (e.g., GM's Volt, Toyota Prius, Ford Escape, and Volkswagon Golf) and all electric (e.g. Mini-e, Nissan Leaf, Ford Focus-BEV, and Tesla) vehicles in late 2010 and 2011.



### **Regulations for Diesel Vehicles/Equipment**

The County of Los Angeles operates approximately 700 diesel vehicles impacted by the California Air Resources Board (CARB) Public Fleet rule (January 5, 2007, regulations). County Departments that operate vehicles impacted by the regulations include Public Works, Fire, Sheriff, Health Services, Parks & Recreation, Beaches & Harbors, Probation, Registrar-Recorder, Agricultural Commissioner, Coroner, Public Social Services, Museum of Natural History, Public Library, and Internal Services.

The County is on schedule to meet all compliance requirements consistent with the CARB implementation schedule for compliance by calendar years ending 2010 and 2011. Each department continues to assess operational requirement for the diesel vehicles/equipment, hybrid and alternate fuel options and their budget to either replace, retrofit, or document low usage of vehicles.

### **Alternate Fuel Vehicle Initiatives**

In support of Governor Schwarzenegger's greenhouse gas emission reduction target of 80 percent below 1990 levels by 2050, ISD continues to explore AFVs, pilot new technologies, educate County departments, and recommend/amend the Clean Fuels Program Policy or Vehicle Policy as necessary. Initiatives in 2009 included:

- ISD established an agreement with Metropolitan Transit Authority (MTA) to allow fueling of County CNG vehicles at four MTA CNG sites. This expands the available infrastructure for County departments to use.
- ISD worked with the Chief Executive Office as active workgroup member in the development of the County Vehicle Policy which is currently under review by the County Audit Committee. This policy provides countywide standards and model for departments to utilize in creating department specific policies and managing County vehicles.
- ISD collaborated with other County departments to identify regional areas and potential sites for alternate fuel site infrastructure including gaseous fuels and electric chargers. This planning is required to provide the required infrastructure to support County operations and encourage transition of the County fleet to AFVs or electric vehicles.
- ISD established a test group for the Mini-e, an all electric vehicle, at the Mall Garage. The test vehicle provides an opportunity to examine potential use and expansion of electric vehicles in County operations and to provide valuable feedback to the manufacturer from a consumer standpoint.



- ISD arranged for short term demo use and testing of the new Ford Rousch all-Propane F150 truck in County operations. This vehicle received excellent performance ratings.
- ISD held a Green Vehicle Expo for County departments in an effort to provide an update on available 2010 alternate fuel and hybrid vehicles for budgeting and purchasing references.

### **ISD Fuel Facilities - Regulation Compliance**

ISD operates three fuel facilities for all County vehicles and to support County emergency preparedness. Fuel facilities are regulated by the CARB, the California Water Board, and the SCAQMD in order to ensure fuel sites meet equipment standards and control emissions.

ISD fuel facilities are in full compliance with all regulations including CARB's Enhanced Vapor Recovery (EVR) Phase I (fuel storage) and II (refueling vehicles) which was required for all gasoline dispensing facilities by April 1, 2009. An exemption is on file for the Mall Garage until April 1, 2012, because the equipment required has not yet been approved for fuel facilities which utilize liquid condensate traps. The Mall Garage is the only County facility with this equipment due to underground level fuel dispensing.

Additionally, ISD management and staff continue to work with County departments and other government agencies on environmental vehicle initiatives, fuel purchasing strategies, County fuel systems and infrastructure, and attend seminars and expositions to gain more applied knowledge on greening our fleet.

If you have any questions, please contact me at 323-267-2101, or your staff may contact Joe Sandoval, General Manager, Purchasing and Contract Services at (323) 267-2109.

TT:JS:MN:lc

Attachment

c: Department Heads  
Administrative Deputies  
Vehicle Coordinators  
ISD Board Deputies

DEPARTMENT	ALTERNATE FUEL VEHICLES (AFV)										Grand Total	TOTAL AFV	Emission Certifications*	AFV as % of TOTAL
	GAS	DIESEL	CNG/	ELECTRIC	ETHANOL	ELECTRIC	METHANOL	PROPANE	PROPANE					
		L	GAS	CNG	C	/ GAS	/ GAS	L/ GAS	E	/ GAS				
AgComm/Weights & Measures	301	13						2			316	2	132	0.63%
Alternate Public Defender	3							1			4	1	2	25.00%
Animal Care & Control	74			1				2			77	3	42	3.90%
Assessor	6							1			7	1	4	14.29%
Auditor-Controller	2							2			4	2	2	50.00%
Beaches & Harbors	102	10						2			114	2	32	1.75%
Board of Supervisors	50							27			77	27	42	35.06%
Chief Administrative Office	10							5			15	5	10	33.33%
Chief Information Officer								1			1	1	1	100.00%
Child Support Services	8										8	-	5	0.00%
COMMUNITY & SENIOR SVC	40						5	5			50	10	39	20.00%
COMMUNITY DEV COMM	5										5	-	3	0.00%
COURTS	5							3			8	3	8	37.50%
DEPT CHILD/FAMILY SERVICES	74										74	-	20	0.00%
DEPT PUBLIC SOCIAL SERVICES	15	2						1			18	1	5	5.56%
DHR	1										1	-		0.00%
DHS	294	66	1	31			6	2	1		401	41	54	10.22%
DISTRICT ATTORNEY	238			1			40	5			284	46	176	16.20%
EMERGENCY PREPAREDNESS	4	1									5	-	2	0.00%
ISD	679	11	4	11	1		76	33	3	1	819	129	628	15.75%
MEDICAL EXAMINER-CORONER	37	4					15	1			57	16	27	28.07%
MENTAL HEALTH SERVICES	147						5	78			230	83	118	36.09%
MILITARY/VETERAN AFFAIRS	1										1	-		0.00%
MUSEUM OF NATURAL HISTORY	13	2									15	-		0.00%
PARKS AND RECREATION	545	18	1	1			5	19		2	591	28	293	4.74%
PROBATION	299	5					49	56			409	105	270	25.67%
PUBLIC DEFENDER	5										5	-	2	0.00%
PUBLIC HEALTH	92			4			1	11			108	16	38	14.81%
PUBLIC LIBRARY	52	2	1	3			2	1			61	7	26	11.48%
REGIONAL PLANNING								3			3	3	1	100.00%
REGISTRAR-RECORDER	46	3						7			56	7	32	12.50%
Office of Public Safety (1)	237	4					7	3			251	10		3.98%
TREASURER AND TAX COLLECTOR	7							1			8	1	2	12.50%
Grand Total	3,392	141	7	52	1	214	269	4	2	1	4,083	550	2,016	13.47%
PERCENT OF FLEET	83.08%	3.45%	0.17%	1.27%	0.02%	5.24%	6.59%	0.10%	0.05%	0.02%				

(1) Office of Public Safety transfers to Sheriff in 2010.

\*Vehicles certified to meet or exceed the Low Emission Vehicle standard as established by the California Air Resources Board